

4701

Burns



Treatment Protocol

Last Reviewed: October 4, 2022

Last Revised: September 13, 2024

BLS Patient Management

ALS Patient Management

• Establish, maintain, and ensure

- A patent and easily managed airway. Use manual maneuvers (head-tilt / chin-lift or jaw thrust), oropharyngeal suction and/or airway adjuncts (OPA / NPAs) as clinically indicated
- B. Adequate respirations and tidal volume. Use a mouth-to-mask device or bag valve mask (BVM), when clinically indicated. Rescue ventilations via a BVM require the use of a manometer. Waveform / digital capnography is required when paramedics are present
- Controlled bleeding. Use direct pressure and/or pressure dressing(s) and/or tourniquet(s) and/or hemostatic dressing(s), as clinically indicated

Oxygen

As clinically indicated. Titrate to maintain, or increase, SpO_2 to a minimum of 94%. A range of 88-92% is acceptable for patients with a history of COPD

- Position the patient as clinically indicated for safety, comfort, and to meet physiologic requirements
- Preserve the patient's body heat by covering them with warm blankets
- Attach ECG leads to the patient when a paramedic is present

• RULE OF PALMS

Surface of patient's palm equals approximately 1% of body surface area (BSA)

• ADULT RULE OF NINES

9% (head)

9% (right arm)

9% (left arm)

36% (torso)

1% (genitalia / perineum)

18% (right leg)

18% (left leg)

 Establish, maintain, and ensure peripheral IV and/or IO access for emergency stabilization, and/or as clinically indicated, in adult and pediatric patients

Consider the need for additional sites as clinically indicated

For significant burns

Adults: Normal Saline 250 mL IV/IO bolus. MAY REPEAT AS CLINICALLY INDICATED TO A MAX ADMINISTRATION OF 2 L.

<u>Pediatrics</u>: Normal Saline 20 mL/kg IV/IO bolus. Use a volume control administration set for accurate dosing. **MAY REPEAT AS CLINICALLY INDICATED.**

For pain associated with burns

Adults: Fentanyl 50 mcg slow IVP/IOP or IM/IN.
Patient's systolic BP must be greater than or equal to 90 mmHg at the time of administration. MAY REPEAT ONCE, IN 5-10 MINUTES, DEPENDENT ON PAIN SEVERITY, TO A MAX OF 100 MCG. ADDITIONAL ADMINISTRATIONS AFTER 100 MCG REQUIRE A BASE HOSPITAL ORDER (BHO).

<u>Pediatrics</u>: Fentanyl 1 mcg/kg slow IVP/IOPor IM/IN. MAY REPEAT ONCE. ADDITIONAL ADMINISTRATIONS REQUIRE A BASE HOSPITAL ORDER (BHO).

Adults: Ketamine 0.3 mg/kg IV, infuse in 50-100 mL Normal Saline, administer over 5 minutes. MAY REPEAT ONCE. ADDITIONAL ADMINISTRATIONS REQUIRE A BASE HOSPITAL ORDER (BHO).

OR

Ketamine 0.5 mg/kg IN. MAY REPEAT ONCE.

ADDITIONAL ADMINISTRATIONS REQUIRE A BASE HOSPITAL ORDER (BHO).

THE MAX SINGLE DOSE FOR EITHER ROUTE IS 30 MG.

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INFANT RULE OF NINES

18% (head)

9% (right arm)

9% (left arm)

36% (torso)

14% (right leg)

14% (left leg)

Remove and bag patient's clothing, jewelry, etc., paying special attention to preventing binding and constriction

For thermal burns: less than 20% BSA

Coolwith wet dressing(s). Follow with dry, clean, nonadherent dressing(s)

For thermal burns: greater than 20% BSA

Apply dry, clean, non-adherent dressing(s)

For chemical burns

Brush off dry chemicals and dilute excess liquid chemicals. Wash patient with mild soap and water. Rinse and flush with large amounts of water

Consult container label or onsite SDS for decontamination instructions.

Remove label or copy page from SDS, preserve in sealed plastic bag, and transport with patient

For electrical burns

Consider possibility of spinal trauma / need for spinal stabilization. Treat related injuries as clinically indicated

For eye burns

Flush contaminated eye(s) with saline for 15 minutes or more. Check for contact lenses. Patch eye(s) as clinically indicated

For tar burns

Cool burns with water. Do not remove tar. Apply petrolatum gauze dressing(s)

ADMINISTRATION OF KETAMINE TO PEDIATRIC **PATIENTS IS NOT PERMITTED.**

Patient Disposition

- PREHOSPITAL TRANSPORT TO A BURN CENTER REQUIRES A BASE HOSPITAL ORDER (BHO). Patients with minor and/or moderate burns can be cared for at any prehospital receiving center.
- Burn patients with airway involvement shall be transported to the closest prehospital receiving center. Airway involvement has priority over burns

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• CONTACT A SINGLE BASE HOSPITAL FOR DESTINATION IN ALL:

- Second degree (2°) burns greater than 30% BSA
- o Third degree (3°) burns greater than 10% BSA
- Second degree (2°) or third degree (3°) burns involving face, hands, feet, genitals / perineum, major joints, fractures, or circumferential burns
- High voltage electrical burns
- Burns in combination with significant pre-existing medical conditions

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